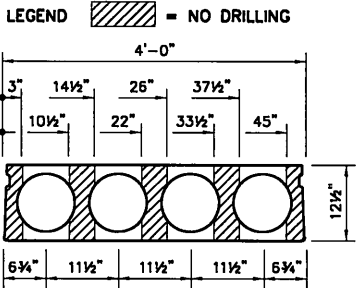


NOTES

- CTC WILL INSTALL ALL BLOCKOUTS OR POUR SLOTS REQUIRED FOR MANHOLES OR STRUCTURAL CONNECTIONS AS INDICATED ON THESE DRAWINGS. PENETRATIONS FOR ALL OTHER TRADES ARE TO BE FIELD INSTALLED BY OTHERS.
- FIELD INSTALLED PENETRATIONS MUST NOT INTERFERE WITH PRESTRESSING STRANDS. SEE SECTION BELOW FOR LOCATION OF SAFE DRILLING AREAS.
- PRESTRESSING STRANDS TO BE ASTM A416, 270 KSI., 1/2" UNCOATED 7-WIRE LOW RELAXATION.
- HOLLOW CORE $f_c = 8,000$ PSI
JOINT GROUT $f_c = 4,000$ PSI
VOID FILL CONCRETE $f_c = 4,000$ PSI
- ALL HOLLOW CORE JOINTS SHALL BE GROUTED AS PER CTC'S RECOMMENDATIONS. SEE "FIELD HANDLING AND ERECTION" BROCHURE SUPPLIED WITH SHOP DRAWING SUBMITTAL.
- VOID DRAIN HOLES WILL BE INSTALLED IN HOLLOW CORE SLABS. CAP TOP HOLES PRIOR TO PLACING COVER OR TOPPING POUR TO PREVENT MATERIAL FROM WASHING INTO VOID AND PLUGGING DRAINS. DRAIN HOLES MUST BE CLEANED OUT AFTER END CLOSURE CONCRETE POURS ARE COMPLETE. CONTRACTOR MAY PATCH HOLES, IF NECESSARY, ONCE STRUCTURE IS WEATHER PROOFED.
- THE HOLLOW CORE SLABS FOR THE VAULT LID HAVE BEEN DESIGNED TO CARRY THE "DESIGN LOADS" ONLY AFTER VAULT CONSTRUCTION IS COMPLETE. ALL DESIGN CONCRETE AND GROUT STRENGTHS HAVE BEEN ACHIEVED AND ALL COVER HAS BEEN PLACED OVER THE VAULT WITHIN THE LIMITS SPECIFIED ON THIS DRAWING. FOR CONTRACTOR'S EVALUATION OF CONSTRUCTION LOADS, ALLOWABLE UNIFORM LOADS ON THE BARE SLABS CAN BE OBTAINED FROM CTC'S WEBSITE WWW.CONCRETETECH.COM.
- SEE "COVER PROFILE" ON THIS DRAWING FOR MINIMUM AND MAXIMUM ALLOWABLE HEIGHT OF COVER FROM TOP OF VAULT TO GRADE. CONTRACTOR RESPONSIBLE TO MAINTAIN HEIGHT OF COVER BETWEEN THESE LIMITS OR INFORM CTC OF CHANGES BEFORE MANUFACTURE OF PRODUCT.

DIMENSIONS FOR SAFE DRILLING



Important:

Concrete Technology Corporation (CTC) will not start production of the hollow core slabs until CTC receives approval of dimensions, quantities and cover depths from the contractor **and** approval of design loads from the engineer of record.

CONTRACTOR APPROVAL OF DIMENSIONS, QUANTITIES & COVER DEPTHS

COMPANY: ARH & Associates

CONTACT: Dave Hagley

SIGNATURE:
DATE: 2/8/16

By signing the above, the contractor approves all dimensions, quantities and cover depths shown on these drawings for construction purposes.

ENGINEER OF RECORD APPROVAL OF DESIGN LOADS

SIGNATURE:
DATE: 02/25/2016

By signing the above, the engineer of record indicates that the 'Design Loads' shown on these drawings conform to project specifications.

| HOLLOW CORE JOB QUANTITY TABULATION | | | | | |
|--|---------------|------------------|---------------------|-----------------|--------------------|
| JOB NAME: JUANITA FARMHOUSE COTTAGES DV | | | DATE: 1/18/16 | | |
| JOB #: 16004A | | | PRODUCT: ULTRA12.5 | | |
| ISSUED BY: TIFFANY JANES | | | UNIT WT: 340 LBS/LF | | |
| SHIP LOOSE ITEMS: BRG STRIP & VOID DAMS PER SHIP ORDER | | | | | |
| TOTALS | 28 | 67 Tons | | 392.00 | 4,312 |
| MARK NUMBER | PIECE QTY. | WEIGHT (Lbs.) | LENGTH (ft.) | TOTAL LENGTH | MINIMUM STRANDS |
| 4 - 01 | 28 | 4,760 | 14.00 | 392.00 | 11 |

☒ CONFORMS TO DESIGN CONCEPT

☐ CONFORMS TO DESIGN CONCEPT WITH REVISIONS AS SHOWN

☐ NON-CONFORMING - REVISE AND RESUBMIT

THIS SHOP DRAWING HAS BEEN REVIEWED FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT ONLY AND DOES NOT RELIEVE THE FABRICATOR/VENDOR OF RESPONSIBILITY FOR CONFORMANCE WITH THE DESIGN DRAWINGS AND SPECIFICATIONS ALL OF WHICH HAVE PRIORITY OVER THIS SHOP DRAWING.

By: **BJM** Date: 02/25/2016
CT ENGINEERING INC

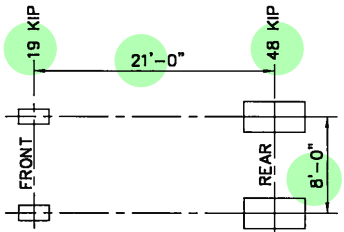
DESIGN LOADS

SURCHARGE LINE LOAD @ 1'-7 1/2" FROM ϕ BEARING:

- LIVE LOAD: 0.6 KLF
- SNOW LOAD: 0.4 KLF
- DEAD LOAD: 1.2 KLF

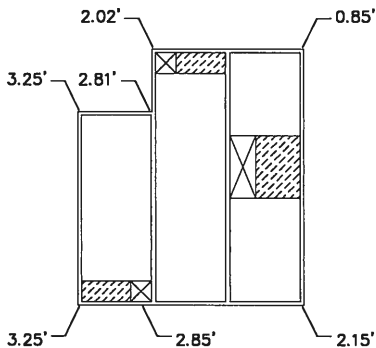
+ SNOW @ 25 PSF
+45 K OUTRIGGER ON 18" SQ. PAD
OR FIRE TRUCK AXLE LOADS
OR HS 20-44 TRUCK LOADS
OR 250 PSF LIVE LOAD
ON 4" PAVING @ 160 PCF
ON COMPACTED FILL @ 135 PCF

FIRE TRUCK AXLE LOADS

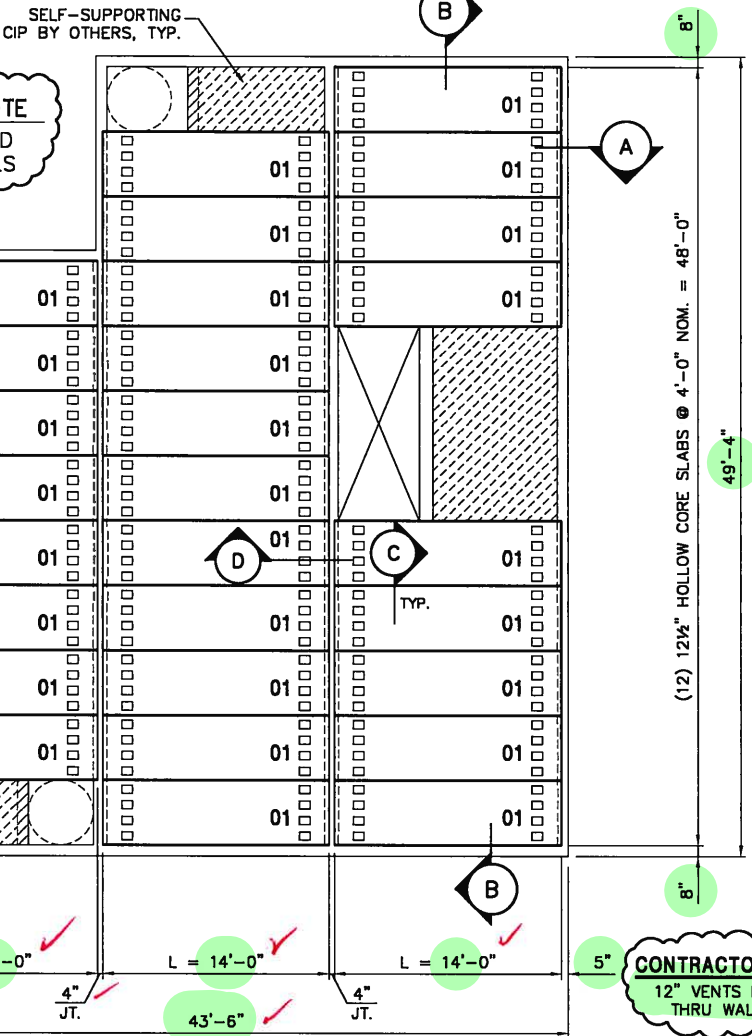


COVER PROFILE

NOTE:
DESIGN OF THE VAULT LID IS BASED ON A LINEAR VARIATION OF COVER BETWEEN SPOT DEPTHS SHOWN BELOW.

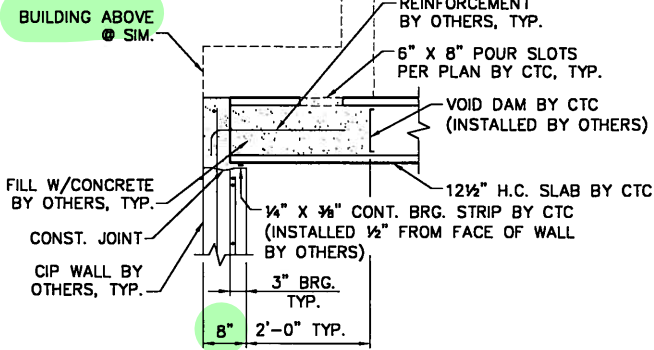


CONTRACTOR PLEASE NOTE
(4) POUR SLOTS REQUIRED @ EA. END OF ALL PANELS

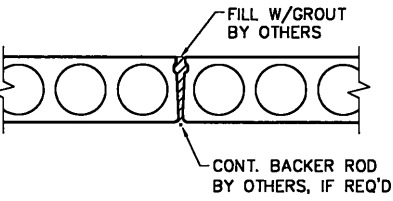


PLACEMENT PLAN

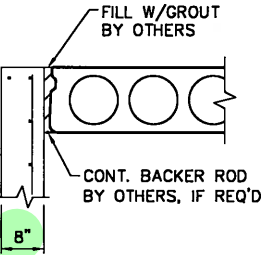
CONTRACTOR NOTE:
12" VENTS MUST EXIT THRU WALLS, TYP.



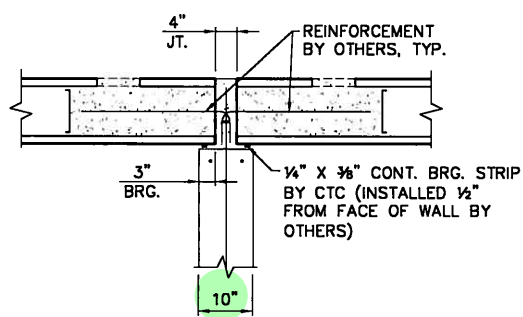
SECTION A
REF. 19/SD4
2/SD2 @ SIM.



SECTION C
REF. 1/SD1



SECTION B
REF. 6/SD4



SECTION D
REF. 8/SD4
SEE SECTION 'A' FOR CALLOUTS IN COMMON

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| No. | Status | Revision | By | App'd | Date |
|-----|-----------|----------|----|-------|--------|
| 1 | SUBMITTAL | | HQ | TJ | 2/8/16 |

CONTRACTOR: (253)479-9505
ARH & ASSOCIATES, INC.
8811 SOUTH 218th Street
KENT, WA 98031

Design: ADM
Drawn: ED
Checked: TJ
Approved:

DO NOT SCALE

CONCRETE TECHNOLOGY CORP.
MANUFACTURERS OF PRESTRESSED CONCRETE
1123 PORT OF TACOMA ROAD
TACOMA, WASHINGTON 98421



JUANITA FARMHOUSE COTTAGES
DETENTION VAULT
KIRKLAND, WASHINGTON

12 1/2" HOLLOW CORE
PLACEMENT PLAN, SECTIONS
AND GENERAL NOTES

Date: JANUARY 2016
Sh. No. 1 of 1
Dwg. No. HC-1
Job No. 16004A